

No. 1444

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. 1397 No. in Register Book 2494
ALASKA PRINCE
S.S. "CHILKOOT"

Makers of Engines Buddens Iron Foundry
Providence, R.I.

Works No.

Makers of Main Boilers Vulcan Iron Works
Vancouver, B.C.

Works No.

Makers of Donkey Boiler W

Works No. ✓

MACHINERY.



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011595-011602-0097

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *1397* No. in Register Book *2491*

Received at Head Office *22^d October 1920.*

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the

Port of Registry *VANCOUVER, B.C.*

Registered Owners *UNION S.S. Co. of British Columbia*

Surveyor's District *VANCOUVER, B.C.*

Date of Completion of Engines *8-5-20*

" " " Main Boilers *Tested 29-3-20*

" " " Donkey " *✓*

Trial Run at *Vancouver, B.C.* Date *8-5-20*

First Visit *18-10-19.* Last Visit *8-5-20*

Total Number of Visits *18*



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SKETCHES.

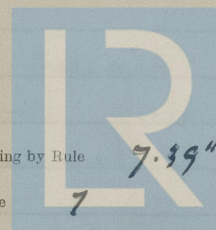
SHAFTING.

Are Crank Shafts Built? *yes* No. of Lengths in each *1* Angle of Cranks *120°*
 Diar. of Crank Shafts by Rule *7.78* Actual *8 3/8* Diar. in Way of Webs *8 3/4*
 Makers of " " Material *Steel*
 Diar. of Crank Pins *8 1/2* Diar. in Way of Web *8 3/4*
 Makers of " " Material *Steel*
 Width across Crank Webs at Centre of Shaft *14"* Thickness *6"*
 " " " " Crank Pins *17"* " *6"*
 " " " " Narrowest part *17"* " *6"*
 Makers of Crank Webs " " Material *Steel*
 Diar. or Breadth of Keys in Crank Webs *2" x 1 1/2"* Length *6"*
 " of Dowel Pins in Crank Pins Length Screwed or Plain
 No. of Bolts in each Coupling *6* Diar. at Mid Length *2.35* Diar. of Pitch Circle *13"*
 Material of Coupling Bolts *Steel*
 Crank Shafts Finished by
 Greatest Distance from edge of Main Bearing to Crank Web *c701c.*

Description of Thrust Blocks *separate horse shoe collars.*
 Number " " Rings *6*

Diar. of Thrust Shafts by Rule *7.78"* Actual (at bot. of Collars) *8 3/8"* Over Collars *14 1/2"*
 " " at Forward Coupling *8 3/8"* After Coupling *8 3/8"*
 No. of Thrust Collars *6* Thickness *1 7/8"* Distance apart *3 3/8"*
 Thrust Shafts Forged by " " Material *Steel*
 " Finished by

Diar. of Intermediate Shafting by Rule *7.39"* Actual *8"*
 No. of Lengths, each Engine *7* No. of Tunnel Bearings
 Diar. of Bearings Length Distance apart



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No. of Bolts, each Coupling **6** Diar. at Mid Length **2.35** Diar. of Pitch Circle **13**
 Intermediate Shafts Forged by **Steel**
 " " Finished by **Wallace Shipyards, Ltd.**
 Diar. of Propeller Shafts by Rule **8.45"** Actual **8½"** At Couplings **8⅝"**
 Are Propeller Shafts fitted with Continuous Brass Liners? **yes**
 Diar. over Liners **9⅝"** Length of After Bearings **3'-3"**
 Of what Material are the After Bearings composed? **Lignum Vitae in Brass Bush**
 Distance from After Bearing in Stern Tube to nearest Tunnel Bearing
 Are the After Bearings lubricated with Oil or Sea Water? **Sea water**
 What means are adopted to prevent Sea Water entering the Stern Tubes?
 Propeller Shafts Forged by **Steel**
 " " Finished by **Wallace Ship yards Ltd.**
 No. of Propellers **1** Diar. **9'-6"** Pitch **10' 0"**
 " Blades, each Propeller **4** Fitted or Solid **solid**
 Material of Blades **cast iron** Boss **cast iron**
 Surface, each Propeller **31.96** Diar. of Propeller **14.65**
 Rule Diar. of Crank Shaft=
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth **.77**

SKETCHES.



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TURBINE ENGINES.

Type

No. of H.P. Turbines

No. of L.P. Turbines

No. of Astern "

How arranged

Revolts. per Min.

Horse Power

Diar. of H.P. Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of H.P. Turbine Casings

" "

Lengths of Blades in H.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of L.P. Turbine Drums

MATERIAL

THICKNESS OF METAL.

Material of L.P. Turbine Casings

" "

Lengths of Blades in L.P. Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Astern Turbine Drums

MATERIAL

THICKNESS OF METAL

Material of Astern Turbine Casings

" "

Lengths of Blades in Astern Turbines

No. of Rows of Blades of each Length

Pitch of " " "

Diar. of Turbine Spindles

Length of Bearing

No. of Thrust Collars on each Spindle

Thickness

Distance apart

Diar. of Spindles at Bottom of Collars

Diar. over Collars

Spindles Forged by

Material

" Finished by

SKETCHES.



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SKETCHES.

SKETCHES.

1. Type of ...
 10" x 18" ...
 12" ...

2. Type of ...
 1-6" ...
 10" x 18" ...

3. Type of ...
 10" x 18" ...
 12" ...

4. Type of ...
 10" x 18" ...
 12" ...



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PUMPS, ETC.

No. of Air Pumps *1* Diar. *10" x 18"* Stroke *12"*

Type of " *Independent, Vertical direct acting, simplex*

Diar. of Air Pump Rod Material

How are Air Pumps Worked?

No. of Centrifugal Circulating Pumps *1-6"* Maker *Morris Machine Wks.*

" Reciprocating " " Diar. Stroke

Diar. of Circulating Pump Rods Material

How are Circulating Pumps Worked? *Independent engine*

Diar. of Circulating Pump Suction from Sea *6"*

Has each Circulating Pump a Bilge Suction with Non-return Valve? *yes* Diar.

No. of Feed Pumps on each Engine Diar. Stroke

Where do they pump from?

" " discharge to?

Are Spring-loaded Relief Valves fitted to each Pump?

Can one Pump be overhauled while the others are at work?

No. of Bilge Pumps on each Engine Diar. Stroke

Where do they pump from?

" " discharge to?

Can one Pump be overhauled while the others are at work?

No. of Bilge Injections connected to Condensers *none* Diar.

Are all Bilge Suctions fitted with Roses? *yes*

Are the Valves, Cocks, and Pipes so arranged as to prevent unintentional connection between Sea and Bilges? *yes*

Are all Sea Connections made with Valves or Cocks fitted direct to the Hull Plating? *yes*

Are they placed so as to be easily seen and accessible? *yes*

Are the Discharge Chests placed above the Deep Load Line? *no*

Are they fitted direct to the Hull Plating and easily accessible? *yes*

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges on the outside? *yes*

All pumps independent

Main Feed 2'- 8" x 5' x 12" Vert. simplex, float control & can be run independently of each other

Bilge & Ballast 1'0 6" x 5 3/4" x 6" Horizontal duplex
Sanitary & Bilge 1'0 4 1/2" x 2 3/4" x 4" " "



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BOILERS.

Boilers made by *Vulcan Iron Works*
 " at *Vancouver, B.C.*
 Works No. *1334*
 Date when Plan approved
 Boiler Plates, Iron or Steel *Steel*
 Makers of Shell Plates *Lukens Steel Co.*
 " Internal Plates " " "
 " Furnaces *American Spiral Pipe Co.*
 " Stay Bars *Bethlehem Steel Corp.*
 " Rivets *Champion Rivet Co.*
 Material tested by (B.C., B.T., etc.) *American Bureau*
 No. of Boilers *One*
 Single or Double-ended *Single*
 No. of Furnaces, each Boiler *3*
 Type of Furnaces *Morrison Suspension*
 Approved Working Pressure *180 #*
 Hydraulic Test Pressure
 Date of Hydraulic Test
 " when Safety Valves set
 Pressure on Valves
 Date of Steam Accumulation Test
 Max. Pressure under Accumulation Test
 System of Draught *Natural*
 Can Boilers be worked separately?
 Greatest inside Diam. of Boilers *14'-6"*
 " " Length " *10'-6"*
 Square Feet of Heating Surface, each Boiler *2272 #*
 " Grate " " *Oil burning, no grates*



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No. of Safety Valves, each Boiler 2

Diar. " " " $3\frac{1}{2}$ "

Area " " " 19.6 sq. each.

Are the Valves fitted with Easing Gear? yes

No. of Pressure Gauges, each Boiler Two

" Water " " One

" Test Cocks, Three

" Salinometer Cocks, " One

Are Water Gauge Pillars attached by Pipes to Steam and Water Spaces? no

Are these Pipes connected to Boilers by Cocks or Valves? -

Are Blow-off Cocks or Valves fitted on Boiler Shells? yes, valves

No. of Strakes of Shell Plating in each Boiler One

" Plates in each Strake Two

Thickness of Shell Plates by Rule 37.8 Thirty seconds

" " Approved $1\frac{5}{16}$ " 42/32

" " in Boilers $1\frac{5}{16}$ "

Are the Rivet Holes Punched or Drilled? drilled

Are Rivets Iron or Steel? steel

Are the Longitudinal Seams Butt or Lap Joints? Butt

Are the Double Butt Straps of equal width? yes

Thickness of outside Butt Straps $1\frac{5}{16}$ "

" inside " $1\frac{7}{16}$ "

Are Longitudinal Seams Hand or Machine Riveted? Hydraulic

Are they Single, Double, or Treble Riveted? Treble

Diar. of Rivet Holes $1\frac{3}{8}$ "

Pitch " $5\frac{1}{4}$ "

Width of Overlap $20\frac{1}{4}$ "

Percentage of Strength in Longitudinal Seams Plate 85.1, Rivet 88



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No. of Rows of Rivets in Centre Circumferential Seams *no centre seam.*

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes

Pitch

Width of Overlap

No. of Rows of Rivets in End Circumferential Seams *Two.*

Are these Seams Hand or Machine Riveted? *Back Hyd. Front Hand*

Diam. of Rivet Holes

Pitch

Width of Overlap

Size of Manholes in Shell

Dimensions of Compensating Rings

Thickness of End Plates in Steam Space by Rule

" " " " " Approved

" " " " " in Boilers

Pitch of Steam Space Stays

Eff. Diam. " " " by Rule

" " " " " Approved

" " " " " in Boilers

Material of " " "

How are Stays Secured?

Diam. and Thickness of Loose Washers on End Plates

" " Riveted " " "

Width " " Doubling Strips " "

Thickness of Middle Back End Plate by Rule

" " " " " Approved

" " " " " in Boilers



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Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

Eff. Diar. of Stays by Rule

" " " Approved

" " " in Boilers

Material

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom by Rule

$27.55/32$

" " " " Approved

$\frac{29}{32}$ "

" " " " in Boilers

$\frac{29}{32}$ "

Pitch of Stays at Wide Spaces between Fireboxes

$12\frac{1}{4}$

Thickness of Doublings in

none

Thickness of Front End Plates at Bottom by Rule

" " " " Approved

1"

" " " " in Boilers

1"

No. of Long Stays in Spaces between Furnaces

3 each side.

Eff. Diar. of Stays by Rule

" " " " Approved

1.817

" " " " in Boilers

1.817

Material of

Steel

Thickness of Front Tube Plates by Rule

$29.5/32$

" " " " Approved

1'

" " " " in Boilers

1'

Pitch of Stay Tubes at Spaces between Stacks of Tubes

$12\frac{3}{4}$ "

Thickness of Doublings in

none

" Stay Tubes at

$\frac{5}{16}$ "



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Are Stay Tubes fitted with Nuts at Front End? *no*

Thickness of Back Tube Plates by Rule *12.63/32*

" " " Approved *3/4*

" " " in Boilers *3/4*

Pitch of Stay Tubes in Back Tube Plates *8" x 12*

" Plain " *4" x 4"*

Thickness of Stay Tubes *5/16 x 1/4"*

" Plain " *#10 B.W.C*

External Diam. of Tubes *3"*

Material " " *steel*

Thickness of Furnace Plates by Rule *16.8/32*

" " " Approved *9/16*

" " " in Boilers *9/16*

Smallest outside Diam. of Furnaces *3'-6 1/8"*

Length between Tube Plates *7'-1"*

Width of Combustion Chambers (Front to Back) *2'-8" outside*

Thickness of " " Tops, by Rule *17.2/32*

" " " " Approved *5/8"*

" " " " in Boilers *5/8"*

Pitch of Screwed Stays in C.C. Tops *6 3/4" x 14 x 8"*

Eff. Diam. " " by Rule *1.209*

" " " Approved *1.37"*

" " " in Boilers *1.37"*

Material " " *steel*

Thickness of Combustion Chamber Sides by Rule *19.12/32*



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Thickness of Combustion Chamber Sides Approved

 $\frac{5}{8}"$

" " " " in Boilers

 $\frac{5}{8}"$

Pitch of Screwed Stays in C.C. Sides

 $6\frac{3}{4}" \times 6\frac{3}{4}"$

Eff. Diar. " " by Rule

1-118

" " " Approved

1-07"

" " " in Boilers

1-34"

Material " "

steel

Thickness of Combustion Chamber Backs by Rule

19-61/32

" " " " Approved

 $\frac{5}{8}"$

" " " " in Boilers

 $\frac{5}{8}"$

Pitch of Screwed Stays in C.C. Backs

 $6\frac{3}{4}"$ Vertical $\times 4" \times 4\frac{1}{8}"$ Horizontal

Eff. Diar. " " by Rule

1-148"

" " " Approved

1-37"

" " " in Boilers

1-34"

Material " "

steel

Are all Screwed Stays fitted with Nuts inside C.C.?

riveted, except c.c. tops.

Thickness of Combustion Chamber Bottoms

 $\frac{7}{8}"$

No. of Girders over each Wing Chamber

5

" " " Centre "

4

Depth and Thickness of Girders

 $9" \times \frac{3}{4}" \times 2$

Material of Girders

steel

No. of Stays in each

3"

No. of Stay Tubes, each Boiler

52 - $\frac{5}{16}"$
40 - $\frac{1}{4}"$

" " Plain " " "

252

Size of Lower Manholes

11" \times 15"

VERTICAL SMOKE BOILERS

If the boiler is a vertical one, the following particulars should be stated in addition to those on

previous pages applicable to such boilers.

Type of boiler

Height of boiler above the grate

Are boiler covers fitted or not?

Internal height of boiler body

Description of openings in boiler covers

Type of rivet used

Height of boiler above the grate

Are boiler covers fitted or not?

External height of boiler covers

No. of lower stays

External diam. of boiler at top

No. of lower tubes

Material of water tubes

No. of screw stays in furnace water

Are they fitted with nuts inside?

SUPERHEATERS

Description of superheater

Where situated

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VERTICAL DONKEY BOILERS.

If the Donkey Boilers are Vertical the following particulars should be stated in addition to those on previous Pages applicable to such Boilers:—

Type of Boilers		
Height of Boiler Crown above Fire Grate		
Are Boiler Crowns Flat or Dished?		
Internal Radius of Dished Ends	Thickness of Plates	
Description of Seams in Boiler Crowns		
Diar. of Rivet Holes	Pitch	Width of Overlap
Height of Firebox Crowns above Fire Grate		
Are Firebox Crowns Flat or Dished?		
External Radius of Dished Crowns	Thickness of Plates	
No. of Crown Stays	Effective Diar.	Material
External Diar. of Firebox at Top	Bottom	Thickness of Plates
No. of Water Tubes	Int. Diar.	" "
Material of Water Tubes		
No. of Screwed Stays in Firebox Sides	Eff. Diar.	Material
Are they fitted with Nuts inside?	Outside?	

SUPERHEATERS.

Description of Superheaters		
Where situated		
Which Boilers are connected to Superheaters?		
Can Superheaters be shut off while Boilers are working?		
No. of Safety Valves on Superheaters	Diar.	Area
Are " " fitted with Easing Gear?		
Date of Hydraulic Test	Test Pressure	
Date when Safety Valves set	Pressure on Valves	

SKETCHES.



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MAIN STEAM PIPES.

No. of Lengths	1				
Material	steel				
Brazed, Welded, or Seamless	welded				
Internal Diam.	4-8 1/3				
Thickness	.375				
How are Flanges Secured?	Expanded				
Date of Hydraulic Test					
Test Pressure					

REFRIGERATORS.

No. of Machines Makers *no refg.*

Description

When any part of the Vessel is to be used for the Carriage of Refrigerated Cargo the following particulars should be stated:—

Total Cubic Capacity of Refrigerated Spaces

Nature, Construction, Thickness, &c., of Insulation

Are all Pipes, Air Trunks, &c., well secured and protected from risk of damage?

Are all Bilge, Suction, Sounding, and Air Pipes in Insulated Spaces properly insulated?

Are Thermometer Tubes so arranged that Water cannot enter and freeze in the Tubes?

Are Sluice Valves fitted on any of the Bulkheads of Insulated Spaces?

Are these fitted with Brass Non-return Valves?

Are they always accessible?

Are the Bilges and Bilge Rose Boxes always accessible?

Are the Steam Suctions to Bilges fitted with Non-return Valves?

Is the Machine Room effectively separated from Insulated Spaces?

" " properly Ventilated and Drained?

No. of Steam Cylinders, each Machine Diars.

" Compressors, " " "

Diam. of Crank Shafts No. of Cranks

Give particulars of Pumps in connection with Refrigerating Plant, and state whether worked by

Refrigerating Machines or independently

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated Spaces?

Date of Test under Working Conditions

Fall of Temperature in Insulated Spaces

Time required to obtain this Result

Articles of Spare Gear for Refrigerating Plant carried on board



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SKETCHES.

ELECTRIC LIGHTING.

Installation Fitted by *Wallace Shipyards, Ltd.*
 No. and Description of Dynamos *1-10 Kw. 110V.*
 Makers of Dynamos *Engking Electric Co.*
 Capacity " *90* Amperes, at *110* Volts. Revols. per Min.
 Current Alternating or Continuous *D.C.*
 Position of Dynamos *in engine room*
 " Main Switch Board *do.*
 No. of Circuits to which Switches are provided on Main Switch Board *4*

Particulars of these Circuits:—

No. of Circuit.	Name of Circuit.	Number of Lights.	Candle Power.	Current Required. Amps.	Size of Conductor.	Current Density.	Conductivity of Conductor.	Insulation Resistance per Mile.
1	Engine	6	120	3	14 BYS		1000 Amh per sq in	600 megohms
2	"	6	120	3	" "		" " "	" "
3	Boiler	5	100	2 1/2	" "		" " "	" "
4	Holds	3	320	12	10 "		" " "	" "
5	Nav.	7	140	3 1/2	10 "		" " "	" "
6	Accommodation	46	920	14 1/2	8 "		" " "	" "
7	Searchlight	73	1000	8	8 "		" " "	" "
			2920	49 1/2				

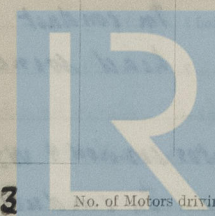
Total No. of Lights

73

No. of Motors driving Fans, &c.

No. of Heaters

Current required for Motors and Heaters



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Positions of Auxiliary Switch Boards, with No. of Switches on each

Accommodation - Port side 8 circuits fitted with standard fuses - each controlled by switch

Engine Room - Boiler Room -

Located in Engine Room 4 circuits fitted with standard fuses and switches
 Located in Pilot house - 4 circuits controlling telegraphs, Compasses etc fuses etc
 Located in Pilot House - Switchboard for control of Navigating Lights, switches & fuses

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxiliary Circuit

Wherever a Cable is reduced in size

To each Lamp Circuit

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Are the Fuses of Standard Sizes?

Are all Switches and Cut-outs constructed of Non-inflammable Material?

Are they placed so as to be always and easily accessible?

Smallest Single Wire used, No. 14

Largest, No.

S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

" " Saloons, State Rooms, &c., " ?

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

(2) " passing through Bunkers or Cargo Spaces

(3) " " Deck Beams or Bulkheads

Are all Joints in Cables properly soldered and thoroughly insulated so that the efficiency of the Cables

is unimpaired?

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces?

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface?

Are the Dynamos, Motors, Main and Branch Cables, so placed that the Compasses are not injuriously

affected by them?

Have Tests been made to prove that this condition has been satisfactorily fulfilled?

Has the Insulation Resistance over the whole system been tested?

What does the Resistance amount to?

Infinity

Ohms.

Is the Installation supplied with a Voltmeter?

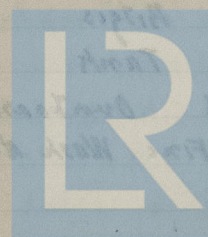
" " " an Ampere Meter?

Date of Trial of complete Installation

8/5/20

Duration of Trial

5 Hours.



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EVAPORATORS.

No.	Type	Tons per Day
-----	------	--------------

Makers

Working Pressure _____ Test Pressure _____ Date of Test _____

Date of Test of Safety Valves under Steam

FEED WATER HEATERS.

No.	Type
-----	------

Makers

Working Pressure Test Pressure Date of Test

DONKEY

No. of Donkeys

Type "

Makers

Single or Duplex

.. Double-Acting

Diar. of Steam Cylinders

.. Pumps

Stroke of „

Where do they pump from?

Where do they discharge to?

Capacity, Tons per Hour of Ballast Donkey

Diar. of Pine required by Rule for

FEED WATER FILTERS.

No.	Type	Size
1	Gravity	

Makers

Working Pressure *atmos.* Test Pressure _____ Date of Test *8-5-20*

FORCED DRAUGHT FANS.

No. of Fans.	Diam.	Revol. per min.
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How are Fans driven ?

PUMPS.

largest Ballast Tank

Velocity of Water in Pipe

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SPARE GEAR.

No. of Top End Bolts	No. of Bot. End Bolts
Main Bearing Bolts 2 Top + 2 Btm.	Coupling Bolts 6
Cylr. Cover Bolts Studs	See Valve Chest.
Feed Pump Valves	Valve Chest Cover Bolts Studs 15 for Valve Chest 1 for Covers
Safety Valve Springs 1	Bilge Pump Valves
Piston Rings 4 H.P. 4 I.P. 2 L.P.	Fire Bars
Piston Rods	Junk Ring Bolts Studs
Valve Spindles	Connecting Rods
Air Pump Valves 6	Air Pump
Crank Pin Bushes	" " Buckets
Crank Shafts	Crosshead Bushes 1
Propellers	Propeller Shafts
Boiler Tubes	" " Blades
	Condenser Tubes

OTHER ARTICLES OF SPARE GEAR:—

1 - upper + 1 - lower packing ring for H.P. valve

4 Ecc. Rod Brasses	3 Box Wrenches
4 Drag Link "	1 Eccentric Strap
1 Link Block "	1 Btm End Con Rod Bearing
12 Link " Steppers	25th Battlett
4 Connecting Rod Bolts	2 main & any Chick Valve Valves
2 Cross Head Bolts	2 Air Pump Piston Rings
2 Ecc. Strap "	2 Battlett " " "
2 " " Studs	4 Sets Valves for Feed & Bilge Pumps
20 Open end Wrenches	2 Sets Metallic Rod Packing
2 Spanners	2 " Valve " "

GENERAL CONSTRUCTION.

Have all the Requirements under Sections 31 and 32 of the Rules been complied with? *yes*

If not, give details of the points of difference, and state when these were sanctioned by the Chief

Surveyor.

Are the Steam Pumping Arrangements in accordance with the approved Plan? *yes*

If not, state in what respects they differ and when such differences were sanctioned by the Chief

Surveyor

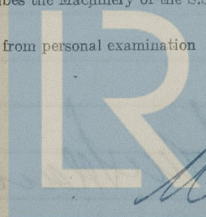
Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and trustworthy?

Is the Workmanship throughout thoroughly satisfactory?

The above correctly describes the Machinery of the S.S.

as ascertained by ^{us} _{me} from personal examination

yes
yes
yes
yes



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Surveyor to the British Corporation for the
Survey and Registry of Shipping.

Fees—

MAIN BOILERS.

H.S. 2832 Sq. ft. £46 : 00

G.S. 1

DONKEY BOILERS.

H.S. Sq. ft. ✓

G.S. ✓

£46 : 00

ENGINES.

L.P.C. 22 Cub. ft. 92 : 00

Testing, &c. 15 : 00

Expenses

Total £163 : 00

It is submitted that this Report be approved,

John King
Chief Surveyor.

Approved by the Committee,

for the class of M.B.B.

27th Oct, 1920

Fees applied for

Fees paid

Walter Manning
Secretary.



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